

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011326

Luminaire Tested: S123DIP-B1165D1195UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011326
REPORT IS A COMBINATION OF REPORTS P989437 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB50-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

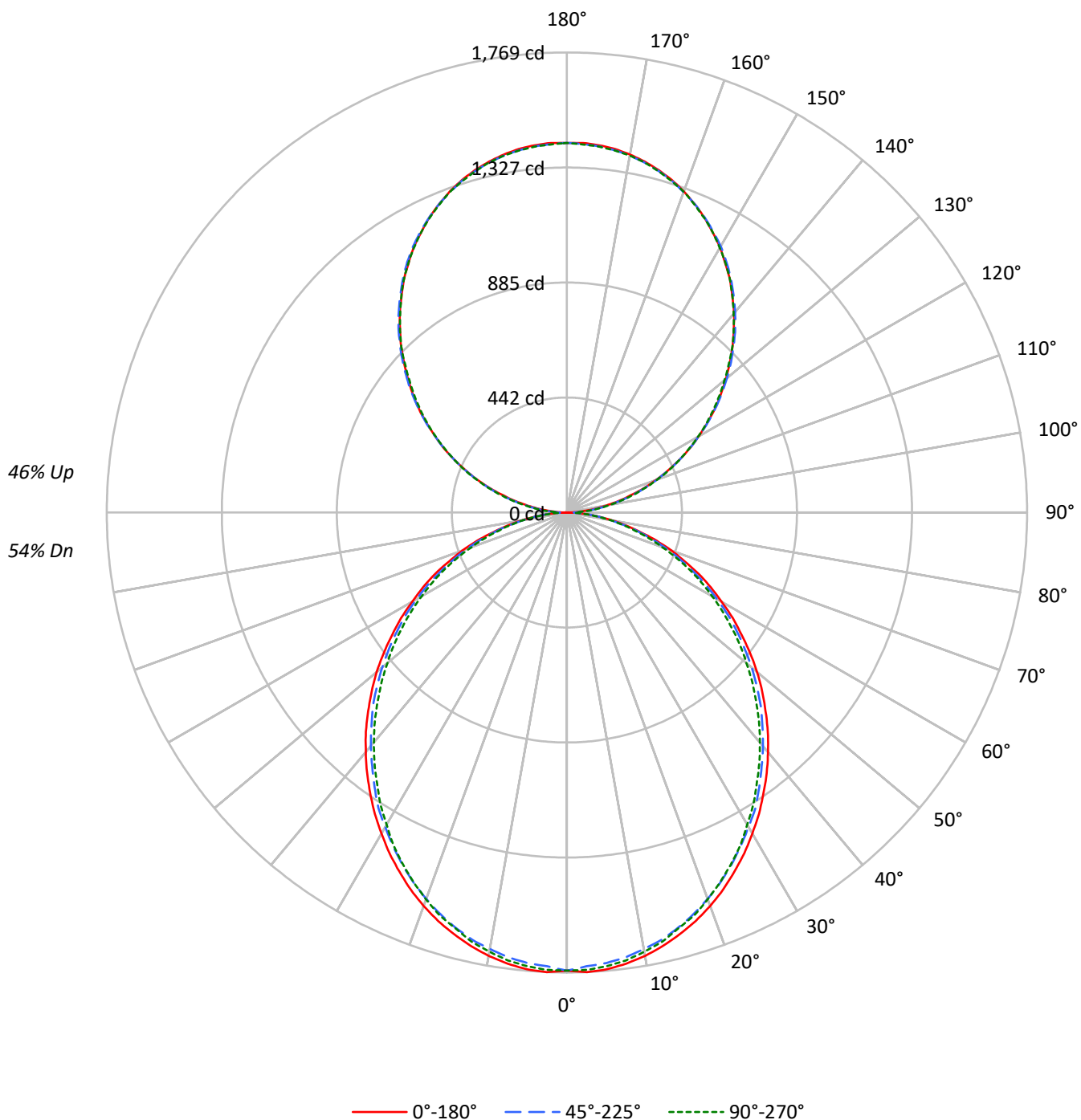
Lumens per Lamp: N/A
Luminaire Lumens: 8526.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	99	94	90	87	91	87	84	81	75	72	70	63	62	60	53	51	50
2	90	82	76	71	83	76	71	66	66	61	58	56	53	50	46	44	42
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18963	18963	18963
5°	19010	18309	18281
10°	18841	17689	17508
15°	18579	17045	16664
20°	18278	16330	15828
25°	17890	15574	14935
30°	17464	14793	13996
35°	17020	13994	13061
40°	16554	13157	12144
45°	16041	12340	11184
50°	15518	11431	10221
55°	14849	10482	9245
60°	14159	9436	8206
65°	13513	8305	7123
70°	12581	7050	5860
75°	11237	5583	4550
80°	9702	3924	3218
85°	7569	2108	1611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16041 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	1.9
10°-20°	469.0	5.5
20°-30°	692.6	8.1
30°-40°	808.9	9.5
40°-50°	813.2	9.5
50°-60°	714.4	8.4
60°-70°	532.0	6.2
70°-80°	302.8	3.6
80°-90°	89.1	1.0
90°-100°	91.5	1.1
100°-110°	276.9	3.2
110°-120°	471.4	5.5
120°-130°	620.2	7.3
130°-140°	697.1	8.2
140°-150°	685.3	8.0
150°-160°	577.0	6.8
160°-170°	384.1	4.5
170°-180°	134.5	1.6
0°-30°	1327.7	15.6
0°-40°	2136.6	25.1
0°-60°	3664.1	43.0
0°-90°	4588.0	53.8
90°-120°	839.8	9.9
90°-150°	2842.4	33.3
90°-180°	3938.0	46.2
0°-180°	8526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1763	1756	1739	1754	1751	167
15°	1678	1672	1653	1665	1656	473
25°	1524	1515	1495	1497	1492	702
35°	1318	1309	1289	1280	1272	825
45°	1080	1074	1054	1036	1029	834
55°	820	818	798	782	774	734
65°	559	551	536	524	520	551
75°	295	289	285	277	273	316
85°	79	76	76	73	73	84
90°	1	12	27	31	34	10
95°	66	74	83	87	87	73
105°	251	253	264	264	266	269
115°	474	478	476	477	476	470
125°	694	698	696	691	687	619
135°	901	908	907	902	900	694
145°	1093	1095	1099	1098	1093	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1769.3	1763.2	1746.6	1761.7	1760.2
5°	1763.2	1755.7	1739.0	1754.2	1751.1
7.5°	1749.6	1742.0	1725.4	1739.0	1737.5
10°	1731.4	1723.9	1704.2	1717.8	1714.8
12.5°	1707.2	1701.1	1683.0	1692.0	1690.5
15°	1678.4	1672.4	1652.7	1664.8	1655.7
17.5°	1646.6	1639.0	1619.3	1628.4	1625.4
20°	1610.2	1601.2	1581.5	1587.5	1583.0
22.5°	1569.3	1560.3	1540.6	1545.1	1539.1
25°	1523.9	1514.8	1495.1	1496.6	1492.1
27.5°	1476.9	1467.9	1446.6	1448.2	1443.6
30°	1425.4	1417.9	1396.7	1396.7	1386.1
32.5°	1373.9	1363.3	1348.2	1337.6	1333.0
35°	1317.9	1308.8	1289.1	1280.0	1272.4
37.5°	1261.8	1249.7	1230.0	1219.4	1214.9
40°	1202.8	1193.7	1172.5	1160.3	1154.3
42.5°	1143.7	1133.1	1111.9	1099.8	1093.7
45°	1080.1	1074.0	1054.3	1036.1	1028.6
47.5°	1018.0	1008.9	990.7	972.5	966.5
50°	954.3	946.8	927.1	910.4	901.3
52.5°	887.7	883.1	861.9	848.3	839.2
55°	819.5	818.0	798.3	781.6	774.1
57.5°	755.9	749.8	734.7	719.5	710.4
60°	686.2	684.7	666.5	652.9	645.3
62.5°	624.1	619.6	601.4	587.7	583.2
65°	559.0	551.4	536.2	524.1	519.6
67.5°	489.3	483.2	471.1	460.5	454.4
70°	427.2	418.1	409.0	398.4	390.8
72.5°	362.0	356.0	345.4	336.3	333.3
75°	295.4	289.3	284.8	277.2	272.7
77.5°	236.3	233.3	227.2	221.2	221.2
80°	178.7	174.2	171.2	169.7	169.7
82.5°	122.7	122.7	122.7	119.7	118.2
85°	78.8	75.7	75.7	72.7	72.7
87.5°	39.4	34.8	33.3	31.8	31.8
90°	1.1	12.3	26.8	31.3	33.5
92.5°	33.5	40.2	46.9	50.2	48.0
95°	65.9	73.7	82.6	87.1	87.1
97.5°	108.3	113.9	120.6	126.2	125.0
100°	151.8	158.5	164.1	167.5	169.7
102.5°	202.1	205.4	213.2	216.6	215.5
105°	251.2	253.4	263.5	263.5	265.7
107.5°	309.3	310.4	314.8	318.2	317.1
110°	362.8	365.1	367.3	371.8	369.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.7	419.8	419.8	425.4	425.4
115°	474.5	477.8	475.6	476.7	475.6
117.5°	531.4	532.5	530.3	530.3	527.0
120°	583.9	590.6	585.0	583.9	581.7
122.5°	638.6	643.1	640.8	637.5	634.1
125°	694.4	697.8	695.5	691.1	686.6
127.5°	745.8	752.5	750.3	743.6	739.1
130°	797.1	806.1	802.7	798.3	790.4
132.5°	848.5	857.4	855.2	849.6	844.0
135°	901.0	907.7	906.6	902.1	899.9
137.5°	949.0	954.6	957.9	952.3	949.0
140°	999.2	1004.8	1005.9	1004.8	997.0
142.5°	1045.0	1050.6	1052.8	1051.7	1046.1
145°	1093.0	1095.2	1098.6	1097.5	1093.0
147.5°	1134.3	1138.8	1142.1	1142.1	1135.4
150°	1177.9	1180.1	1182.3	1182.3	1175.6
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)